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CENTRAL FAX CENTERSN 10/713672; Meinhart  
Art Unit 2878; Examiner Luu

OCT 13 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
PATENT EXAMINING OPERATIONRE: United States Patent Application  
Serial No.: 10/713672  
Filed: 11/13/2003Applicants: Carl D. Meinhart et al.  
For: MICRON RESOLUTION PARTICLE IMAGE MOVEMENT  
Group Art Unit 2878  
Examiner: Thanh X. LuuREQUEST FOR EXTENSIONS OF TIME; and  
RESPONSE TO OFFICE ACTION OF JULY 6, 2005Commissioner for Patents  
VIA FACSIMILE: (571) 273-8300

Applicants acknowledge with appreciation the allowance of many claims.

IN THE TITLE, please change the title to:

DEPTH-OF-FIELD MICRON RESOLUTION VELOCIMETRY  
WITH PULSED IMAGES OF INJECTED SOLID PARTICLES.

Claims 41-44 were previously withdrawn in response to the Office Action of March 30, 2005. Claims 58 and 59 are withdrawn by the present amendment and are reserved for possible inclusion in a further Continuation application.

The only issue remaining at hand is the patentability of Claim 45 over the Horiuchi patent No. 5,594,544.

Applicants strongly believe that Claim 45 is a patentable and allowable claim. However, clarifying amendments are now made in Claim 45 in order to improve its format and even more clearly establish its patentability over Horiuchi.

The Status of Claims is reported on several following pages, after which there are further Remarks regarding patentability of the claims over the Horiuchi reference.

10/14/2005 STEUMEL1 00000047 012226 10713672

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OCT 13 2005

PTO/SB/17 (12-04v2)

Approved for use through 07/31/2008, OMB 0651-0032  
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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Effective on 12/08/2004.

Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

**FEE TRANSMITTAL**  
**For FY 2005**☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$)

60

**Complete if Known**

Application Number	10/713672
Filing Date	11/13/2003
First Named Inventor	Carl D. Meinhart
Examiner Name	Thanh X. Luu
Art Unit	2878
Attorney Docket No.	0328

**METHOD OF PAYMENT (check all that apply)**

☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): \_\_\_\_\_

☒ Deposit Account Deposit Account Number: 012226 Deposit Account Name: Gene W. Arant

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee

☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☐ Credit any overpayments

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**FEE CALCULATION****1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

**2. EXCESS CLAIM FEES****Fee Description**

	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180

<b>Total Claims</b>	<b>Extra Claims</b>	<b>Fee (\$)</b>	<b>Fees Paid (\$)</b>
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- 20 or HP =	x	=	
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HP = highest number of total claims paid for, if greater than 20.

<b>Indep. Claims</b>	<b>Extra Claims</b>	<b>Fee (\$)</b>	<b>Fees Paid (\$)</b>
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- 3 or HP =	x	=	
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HP = highest number of independent claims paid for, if greater than 3.

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

<b>Total Sheets</b>	<b>Extra Sheets</b>	<b>Number of each additional 50 or fraction thereof</b>	<b>Fee (\$)</b>	<b>Fees Paid (\$)</b>
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- 100 =	/ 50 =	(round up to a whole number) x	=	
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**4. OTHER FEE(S)**

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): Extension of time, one month**Fees Paid (\$)**

\$60

**SUBMITTED BY**

Signature	<u>Gene W. Arant</u>	Registration No. (Attorney/Agent)	17,936	Telephone	541-557-1716
Name (Print/Type)	Gene W. Arant	Date	10/13/2005		

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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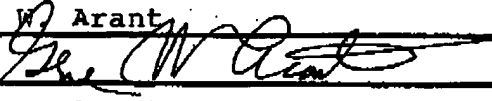
OCT 13 2005


PTO/SB/21 (08-04)  
Approved for use through 07/31/2009, OMB 0551-0001  
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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<b>TRANSMITTAL FORM</b>	Application Number	10/713672	
	Filing Date	11/13/2003	
	First Named Inventor	Carl D. Meinhart	
	Art Unit	2878	
	Examiner Name	Thanh X. Luu	
(To be used for all correspondence after initial filing)		Attorney Docket Number	0328
Total Number of Pages in This Submission		16	

ENCLOSURES (Check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input checked="" type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input checked="" type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation <input type="checkbox"/> Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Other Enclosure(s) (please identify below):
Remarks RESPONSE TO OFFICE ACTION AND REQUEST FOR EXTENSIONS OF TIME		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	Gene W. Arant		
Signature			
Printed name	Gene W. Arant		
Date	10/13/2005	Reg. No.	17,936

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:			
Signature			
Typed or printed name	Shirley Dunne	Date	10/13/2005

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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